

FIG. 1

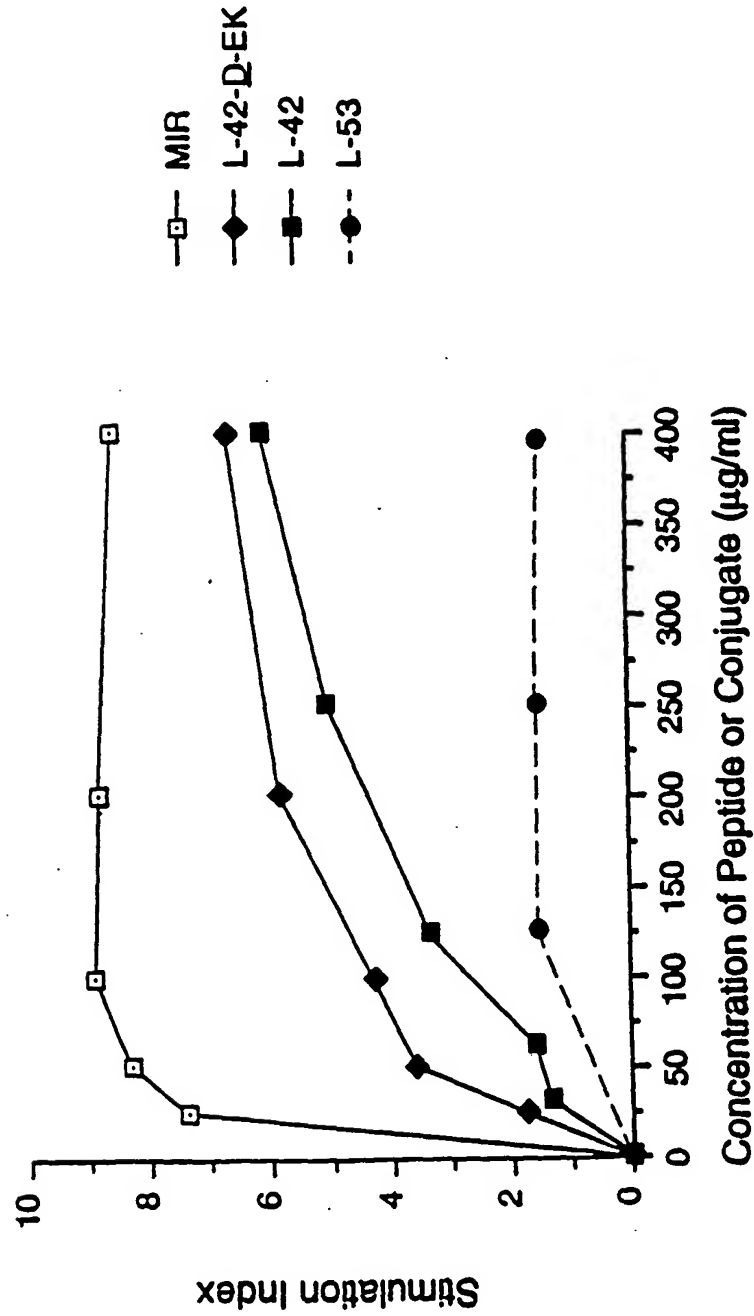


FIG. 2

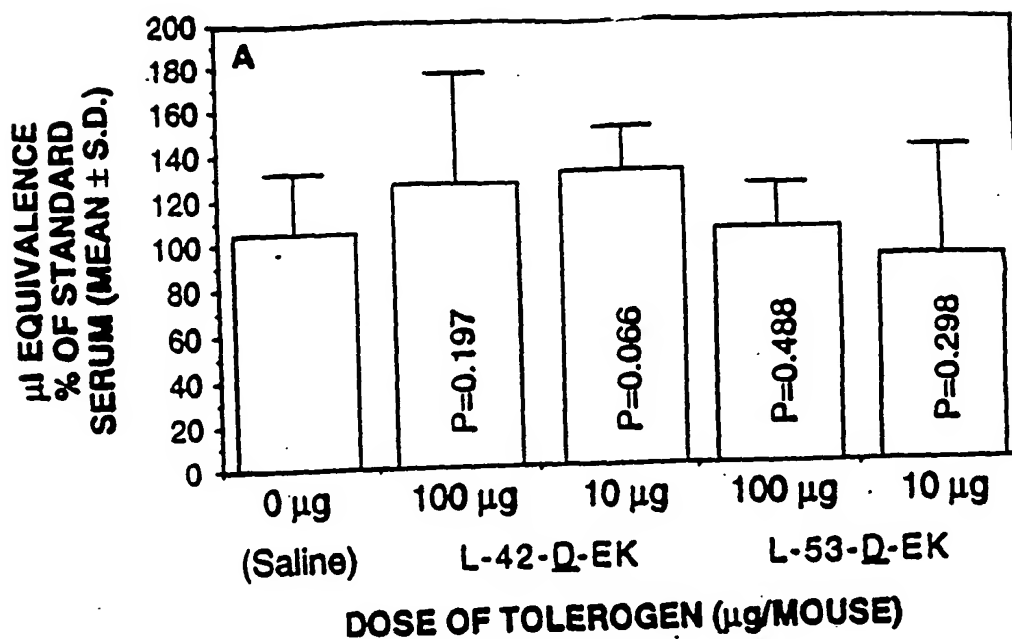


FIG. 3A

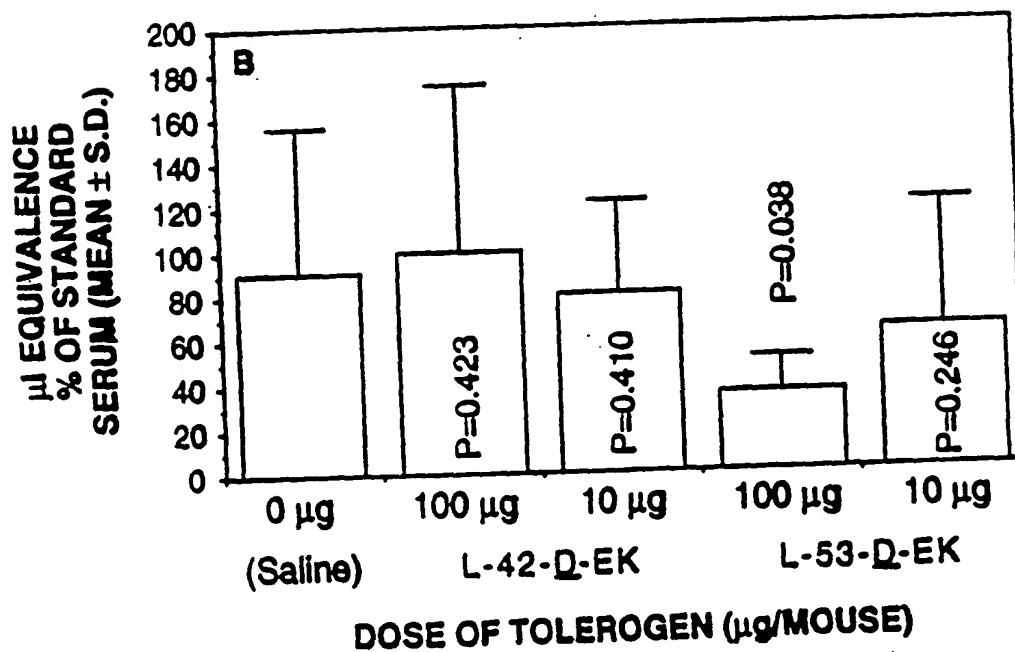


FIG. 3B

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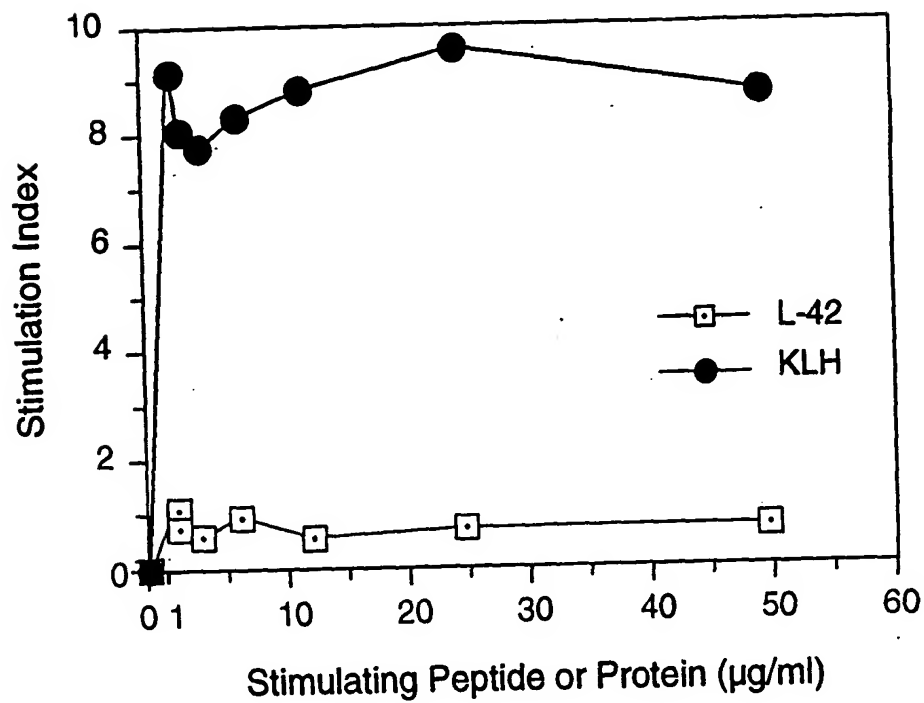
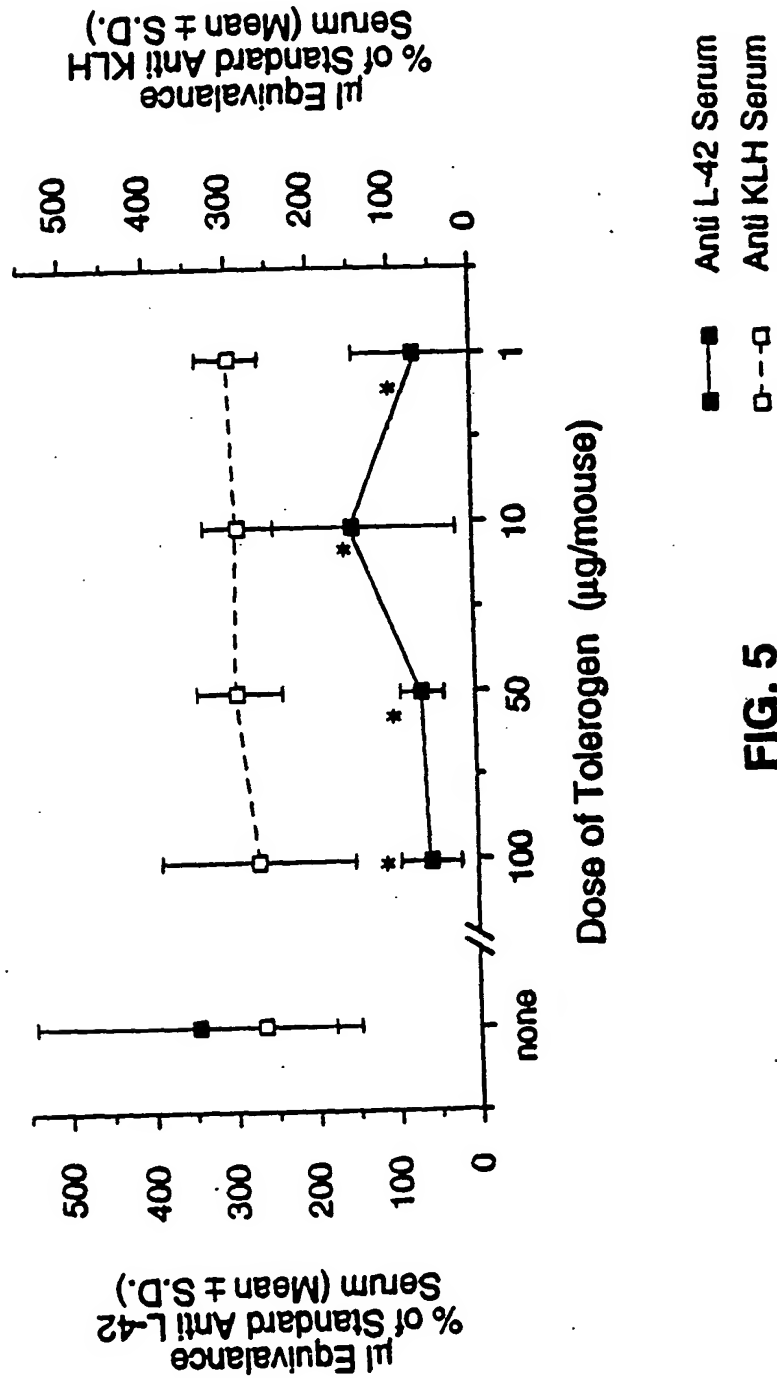


FIG. 4



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T Cell Proliferation Induced by Mellitin Peptides

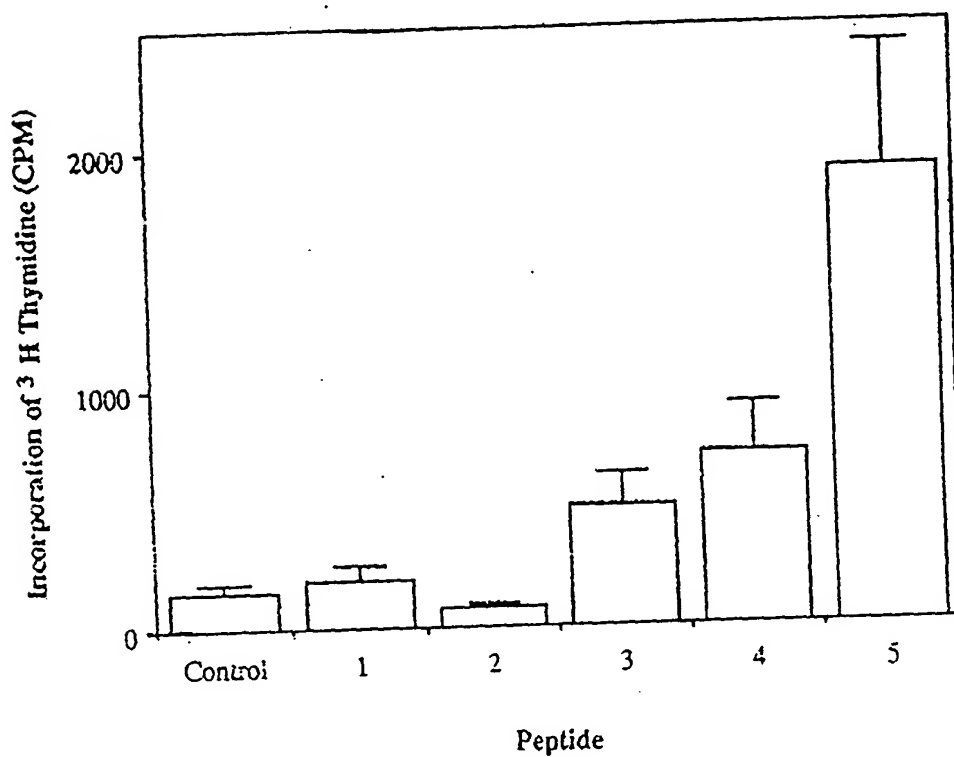


FIGURE 6

IgG serum circulating Ab to melittin peptide 2

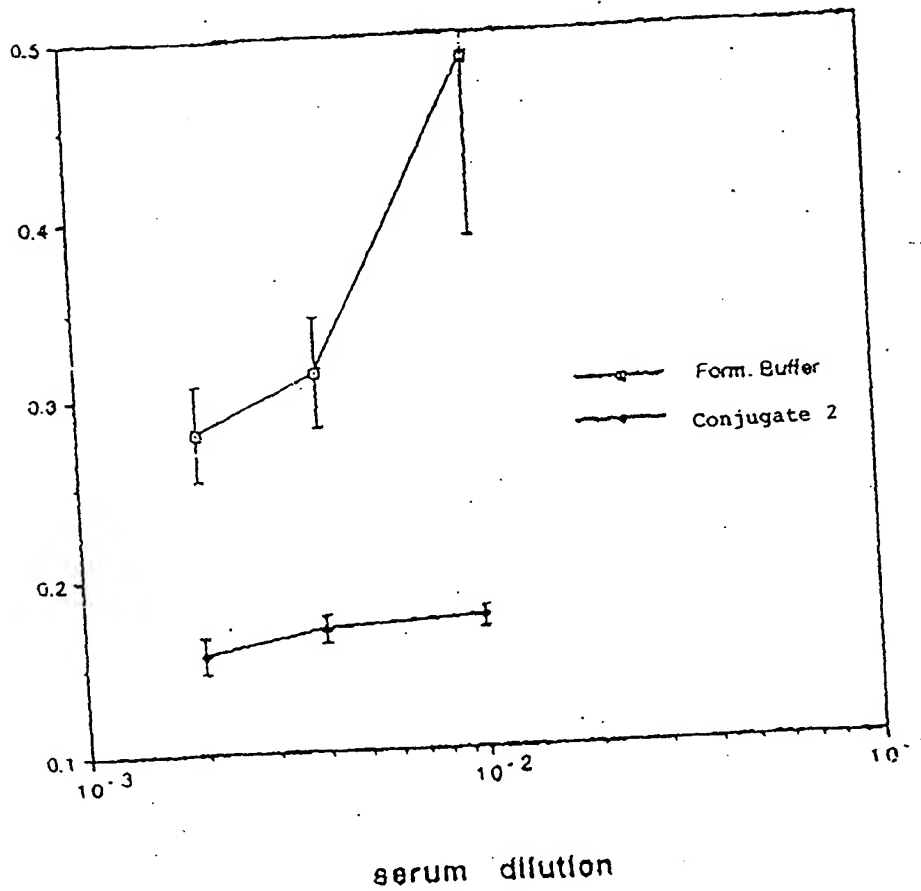


FIGURE 7

IgG serum circulating levels to Melittin

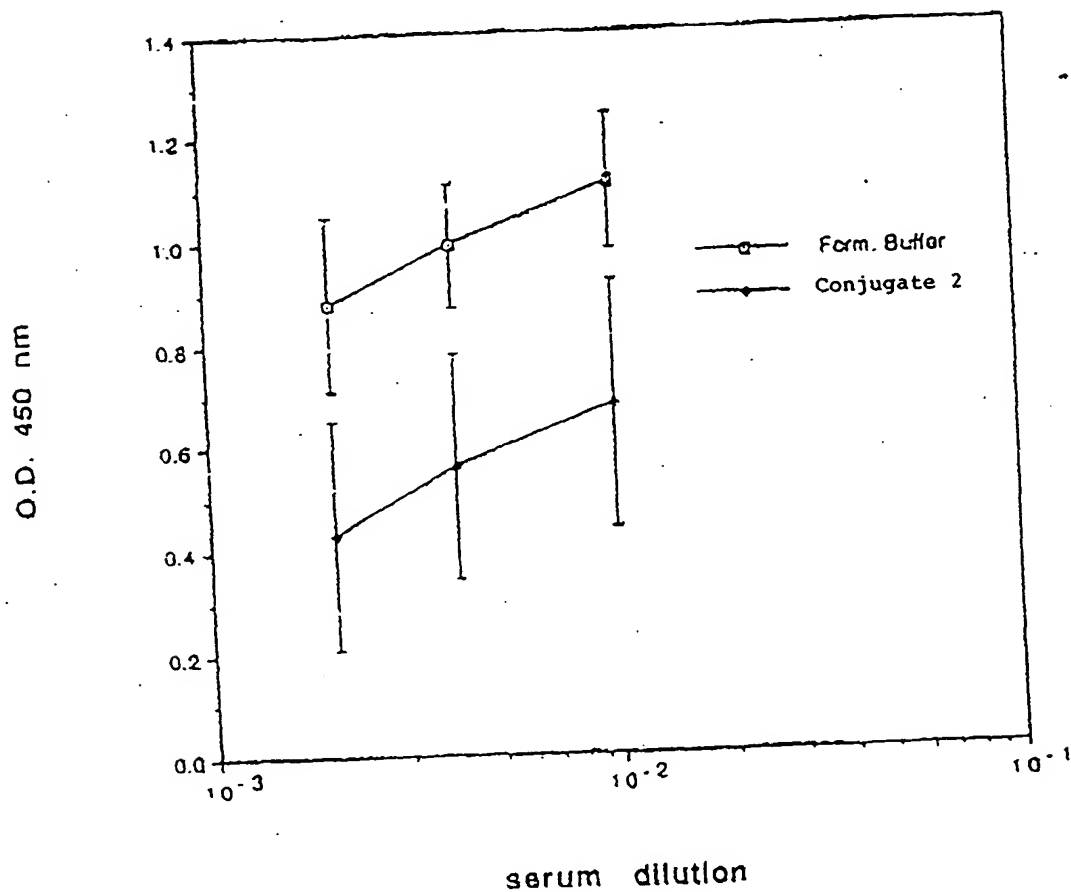


FIGURE 8

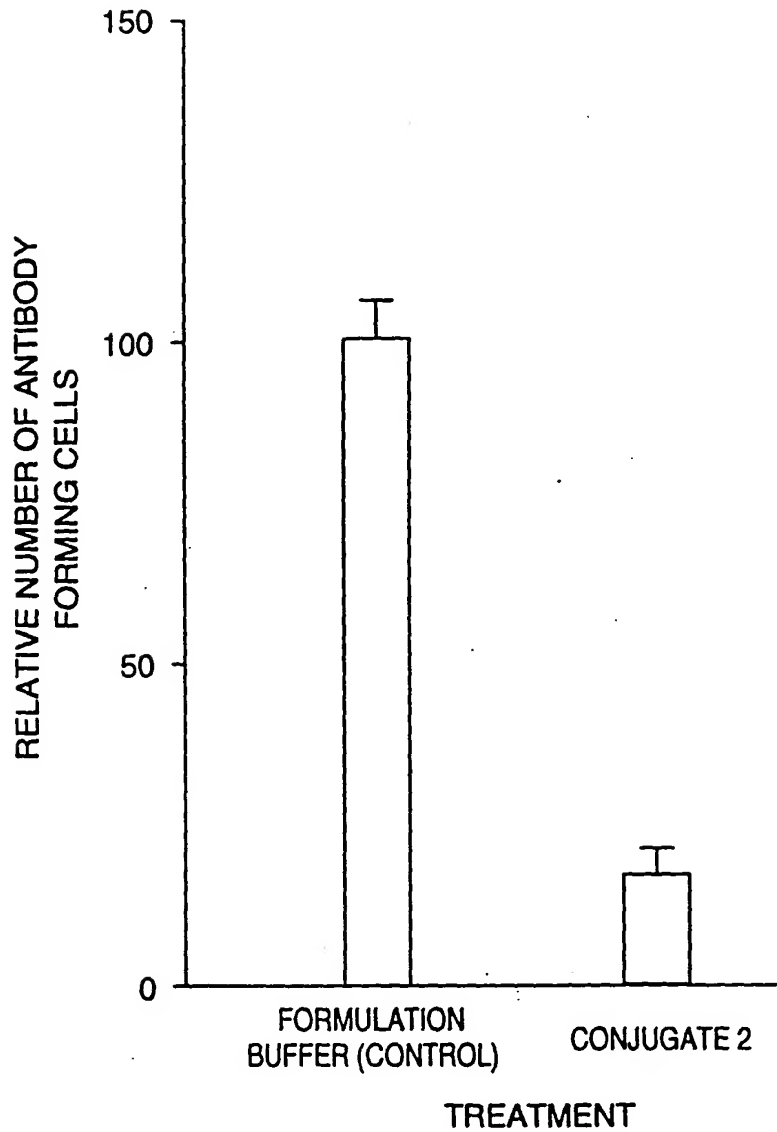
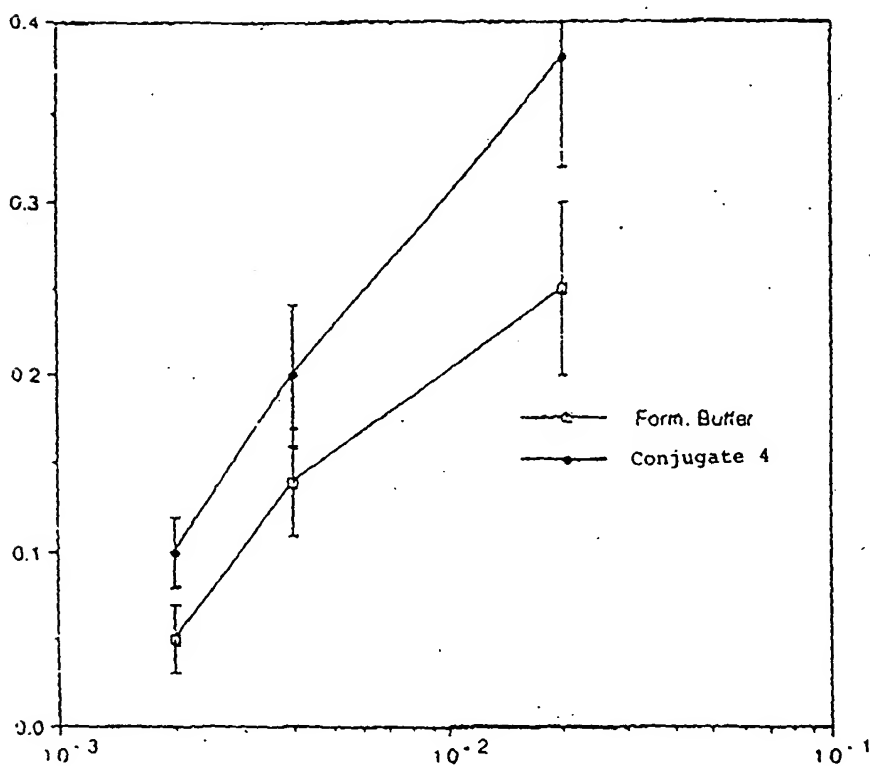


FIG. 9

IgG serum circulating Ab to Peptide 5

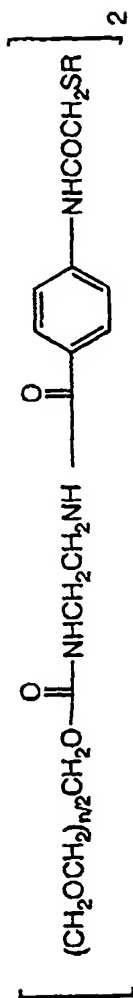
200220" 940T800T
 O.D. 450 nm



serum dilution

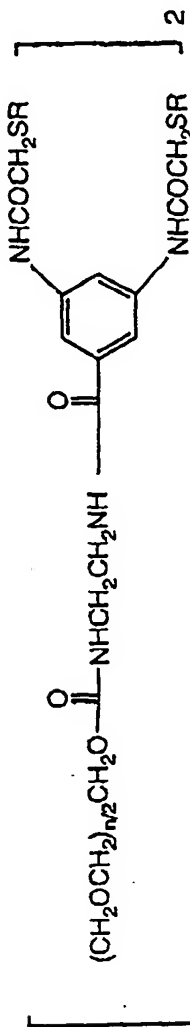
FIGURE 10

Melittin Peptide Conjugates



Melittin Conjugate # 1, R = H₂N-Trp-Ile-Lys-Arg-Lys-Gln-Gln-Lys-Cys-Gly-CO₂H

Average n = approx. 74



Melittin Conjugate # 2, R = H₂N-Cys-Trp-Ile-Lys-Arg-Lys-Arg-Gln-Gln-Gly-CO₂H
 Melittin Conjugate # 3, R = H₂N-Trp-Ile-Lys-Arg-Lys-Arg-Gln-Gln-Lys-Cys-Gly-CO₂H
 Melittin Conjugate # 4, R = H₂N-Cys-Ile-Ser-Trp-Ile-Lys-Arg-Lys-Arg-Gln-Gln-Gly-CO₂H
 Melittin Conjugate # 5, R = (H₂N-Trp-Ile-Lys-Arg-Gln-Gln)₂-Lys-Cys-Gly-CO₂H

Melittin peptides attached through sulfur atom on added cysteine, average n = approx. 74

FIGURE 11